

Architecture 100

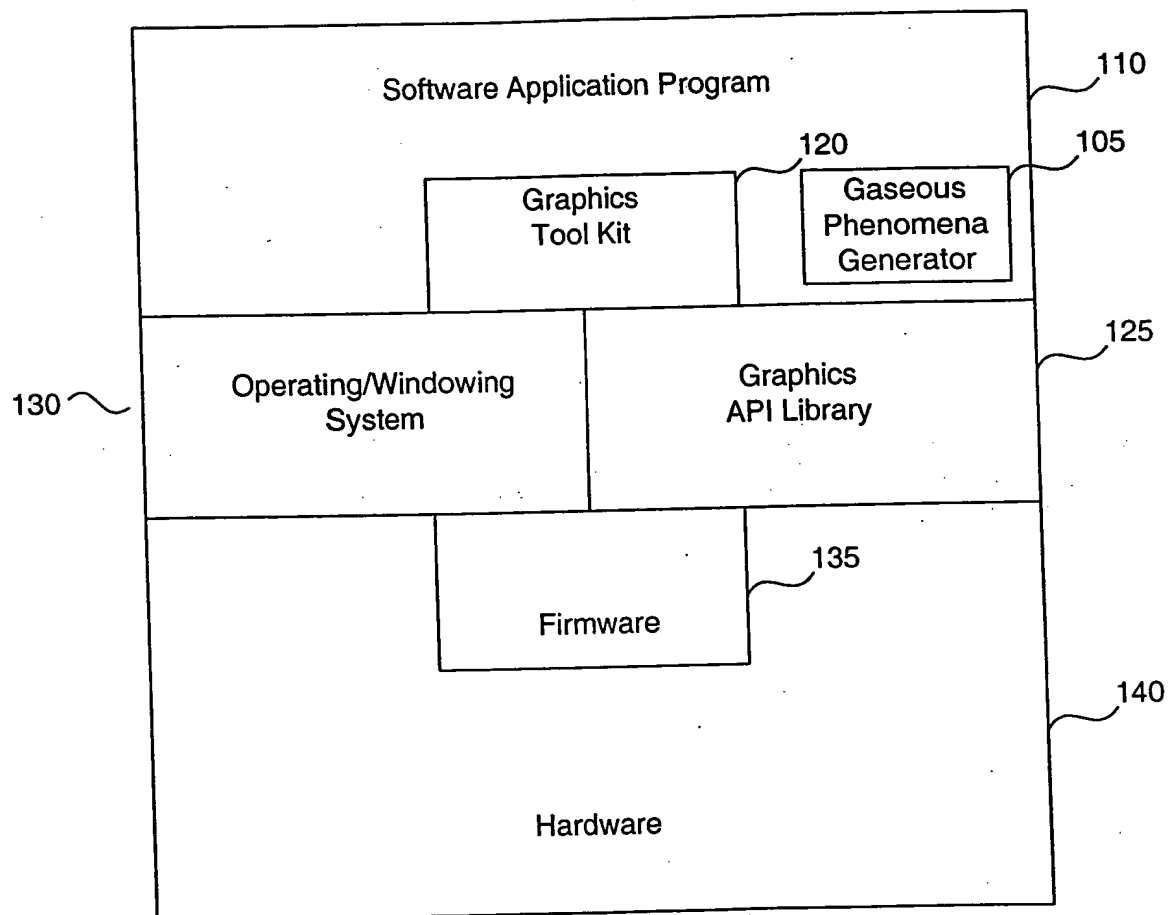


FIG. 1

Gaseous
Phenomena
Generator
105

200

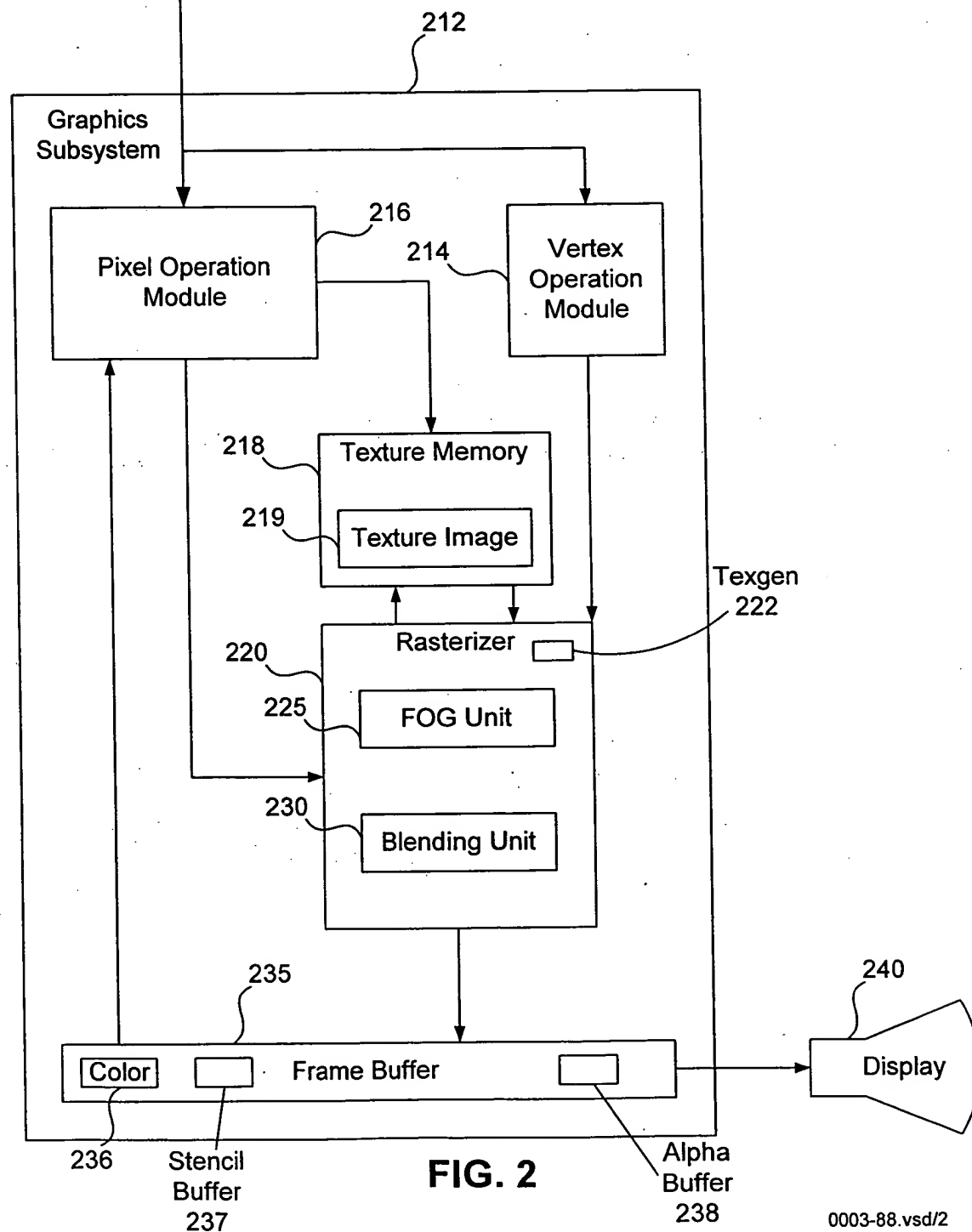
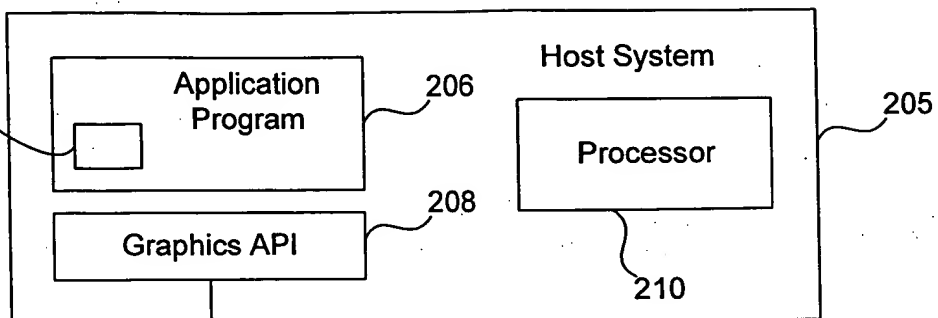


FIG. 2

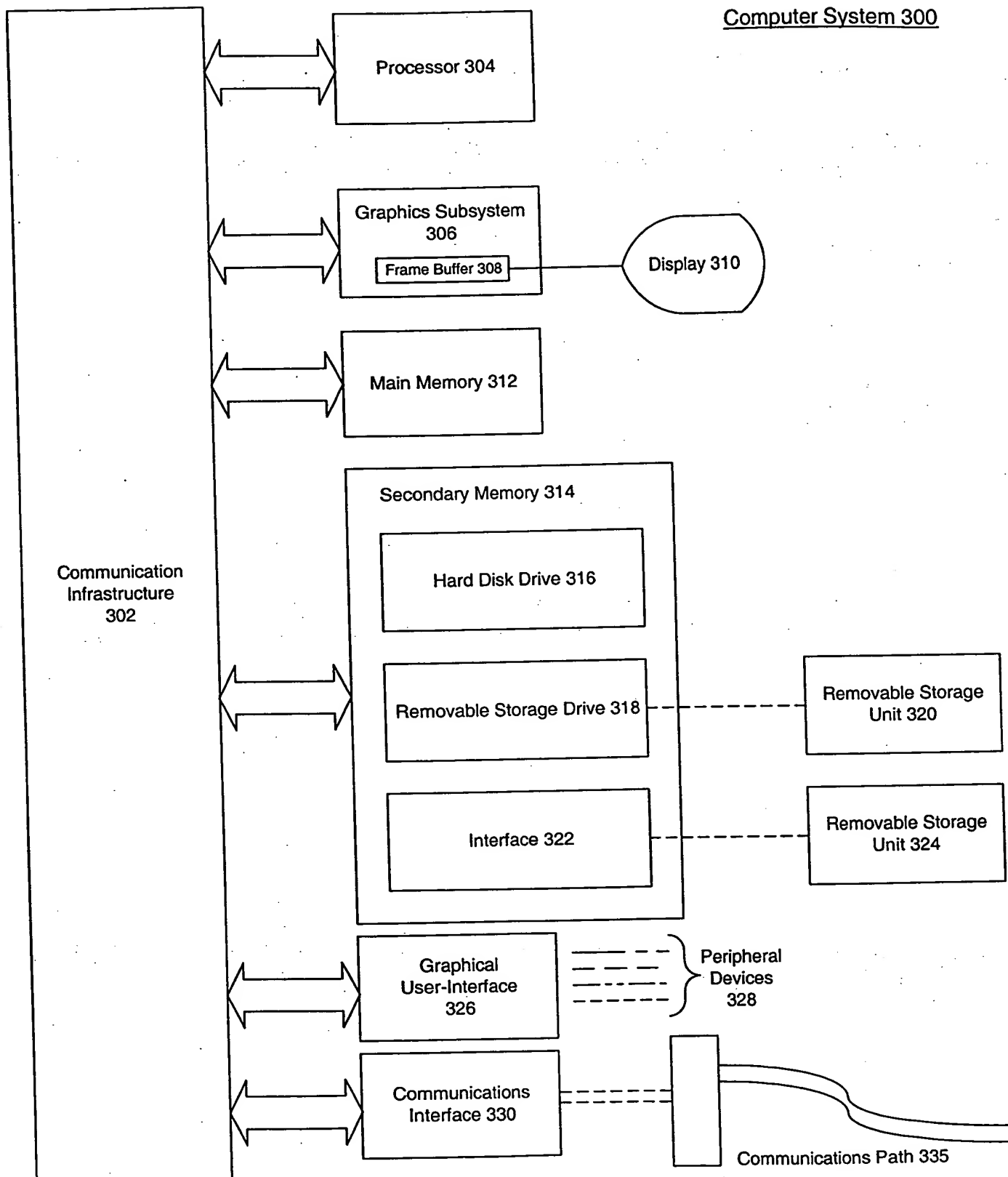


FIG. 3

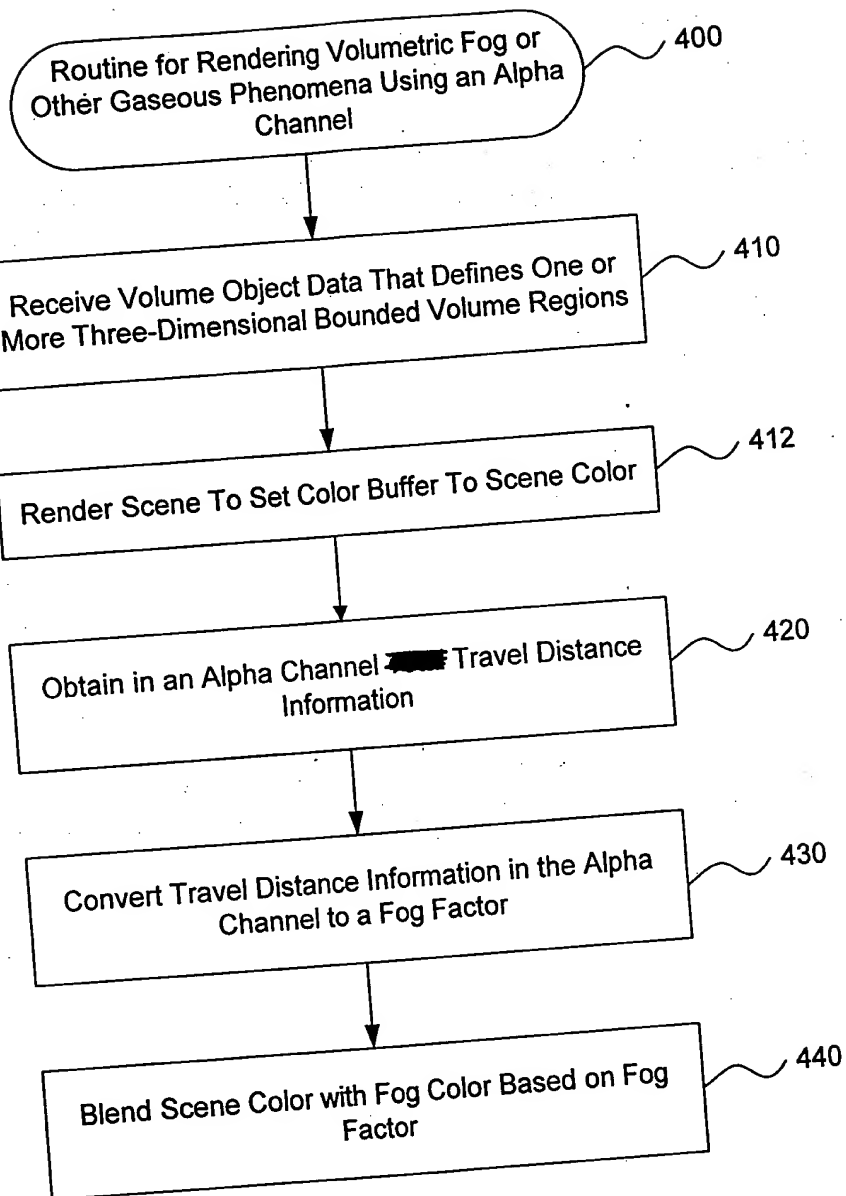


FIG. 4

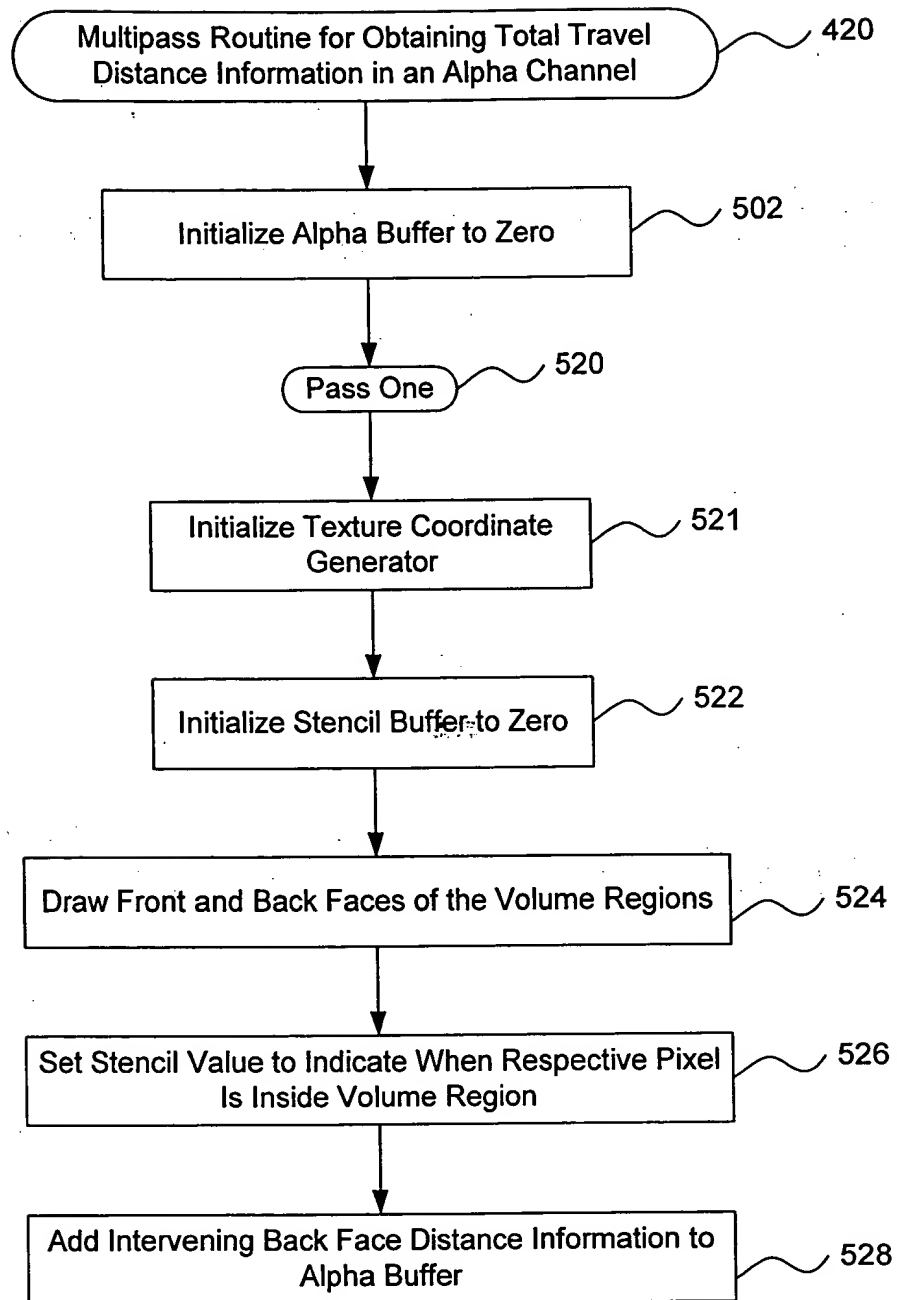


FIG. 5A

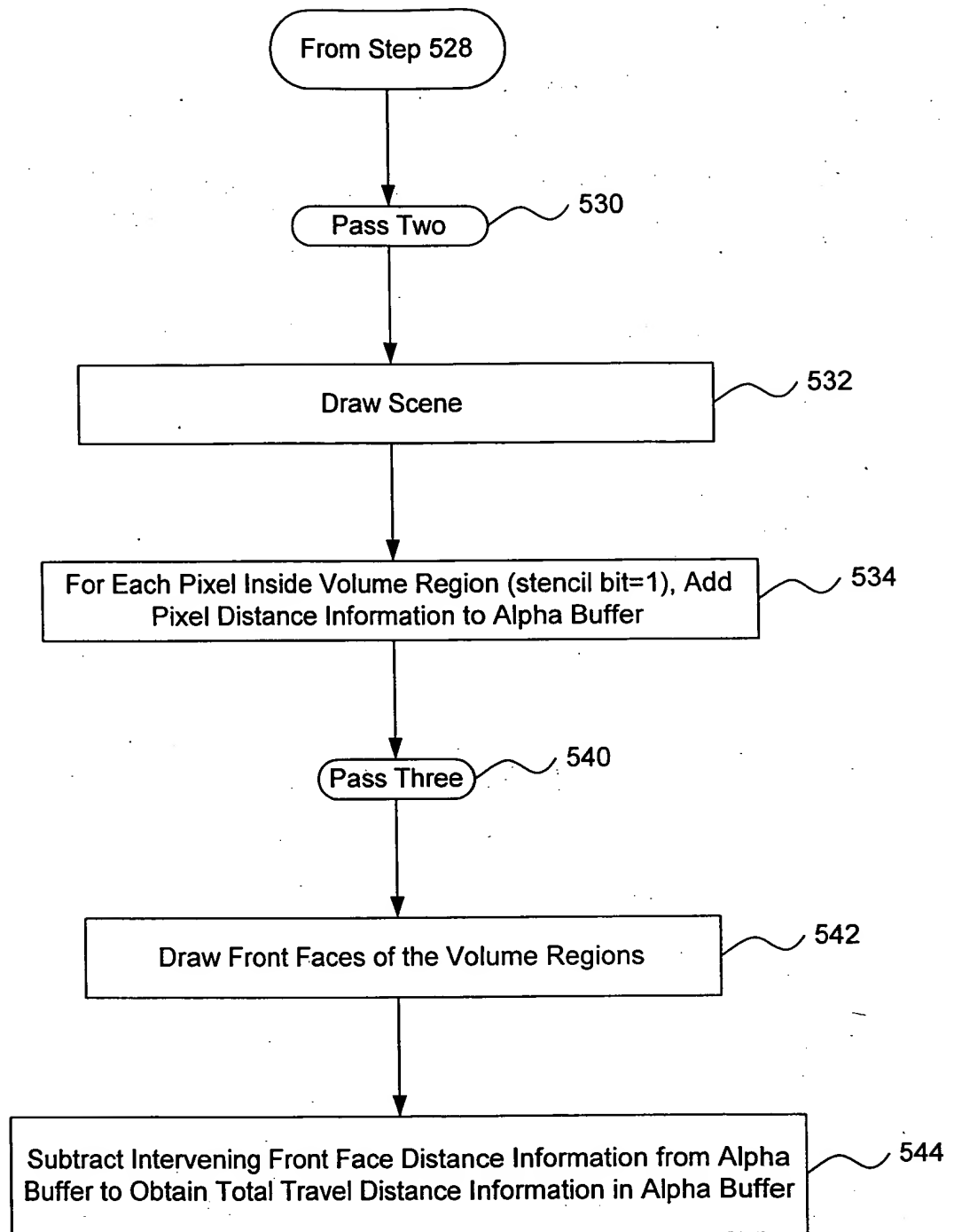


FIG. 5B

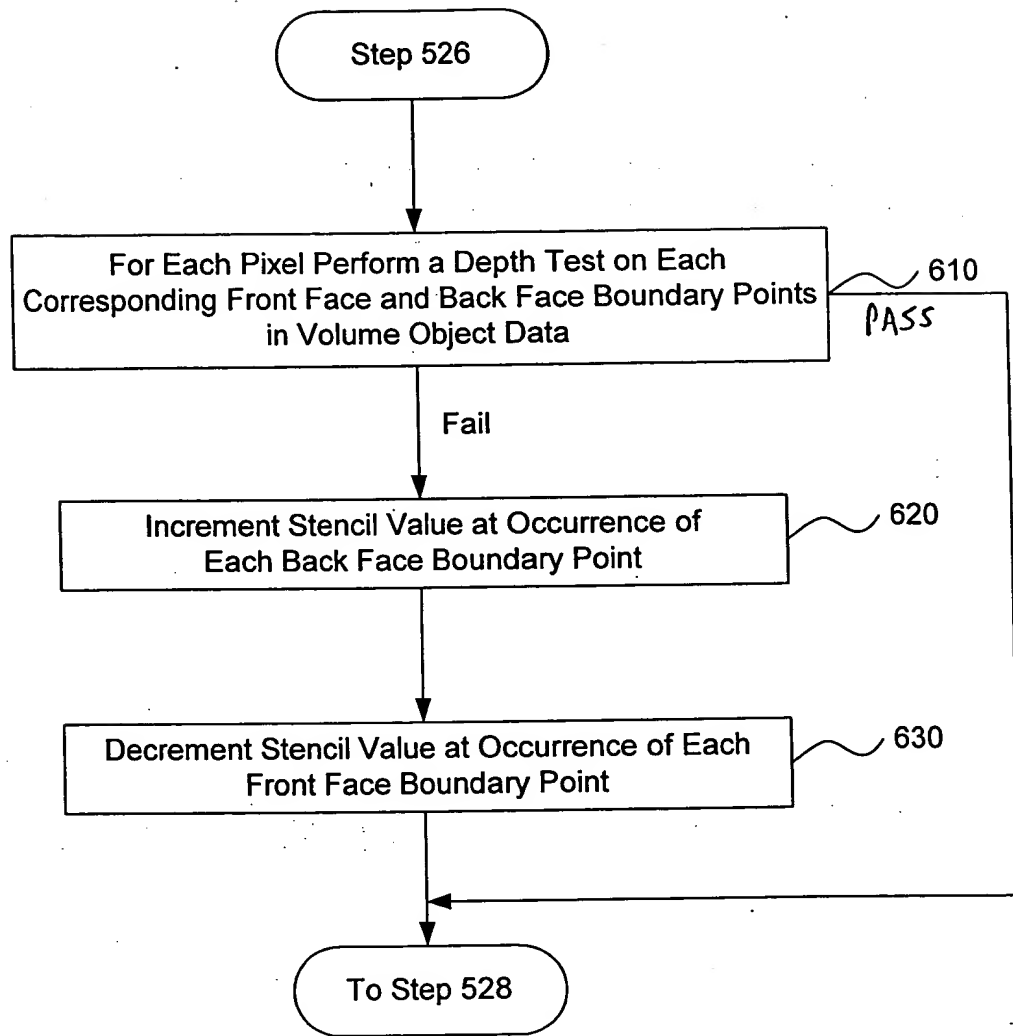
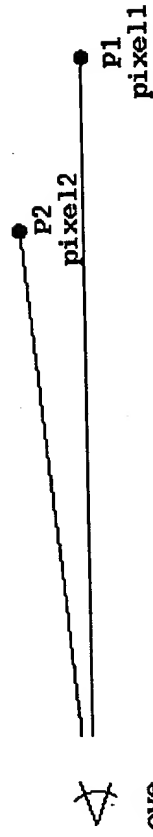
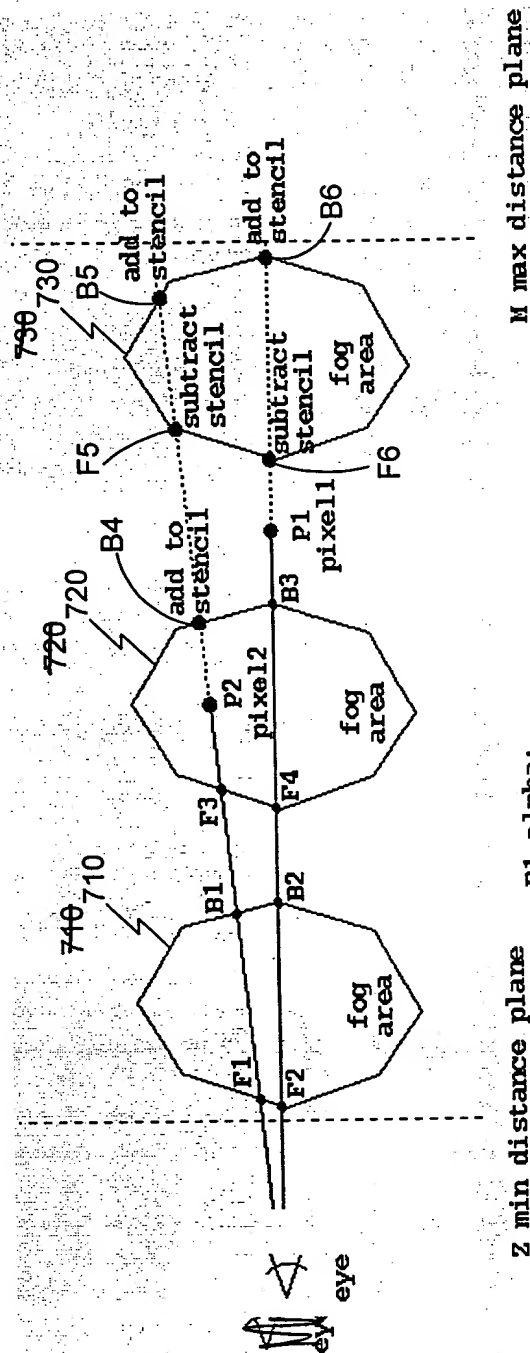


FIG. 6



P1 color: P1 scene color
P2 color: P2 scene color

FIG. 7A



Z min distance plane

M max distance plane

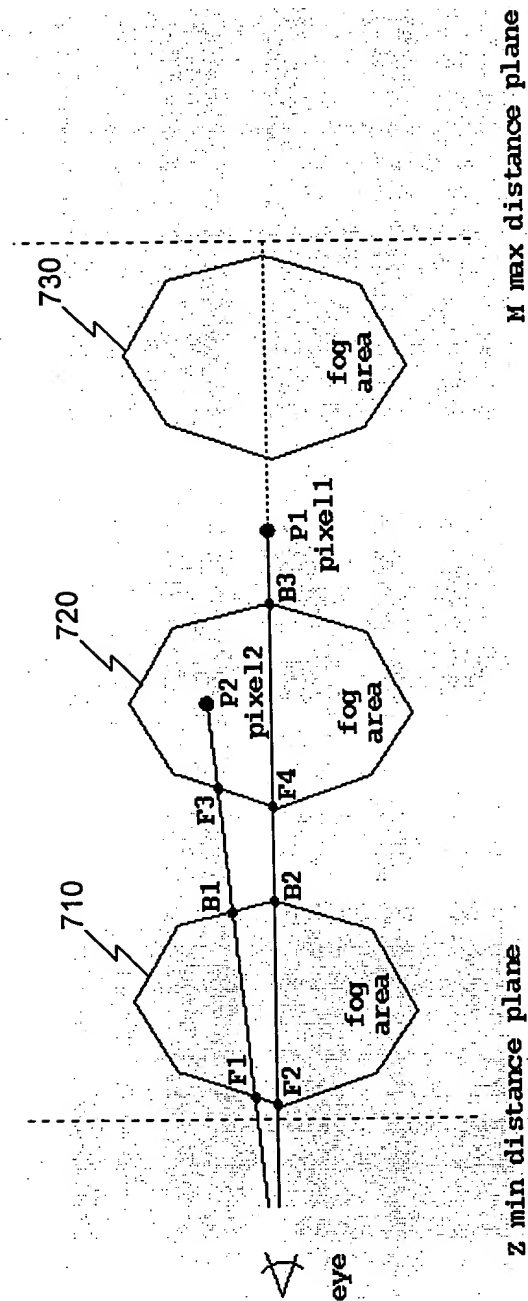
P1 alpha:

$$\frac{(|B2, Z|/|M, Z|) * fogScale}{(|B3, Z|/|M, Z|) * fogScale} + \frac{(|B2, Z| + |B3, Z|)/|M, Z| * fogScale}{P1 stencil: 1-1 = 0}$$

P2 alpha:

$$\frac{(|B1, Z|/|M, Z|) * fogScale}{(|B1, Z|/|M, Z|) * fogScale} + \frac{(|B1, Z| + |B2, Z|)/|M, Z| * fogScale}{P2 stencil: 1-1-1 = 1}$$

~~FIG 7B~~ FIG. 7B



P1 alpha: not changed, stencil 0

$$= ((|B2, Z| + |B3, Z|) / |M, Z|) * \text{fogScale}$$

P2 alpha: changed, due to stencil 1

$$P2 \text{ alpha} = ((|P2, Z| / |M, Z|) * \text{fogScale}) + ((|B1, Z| + |P2, Z|) / |M, Z|) * \text{fogScale}$$

FIG. 7C

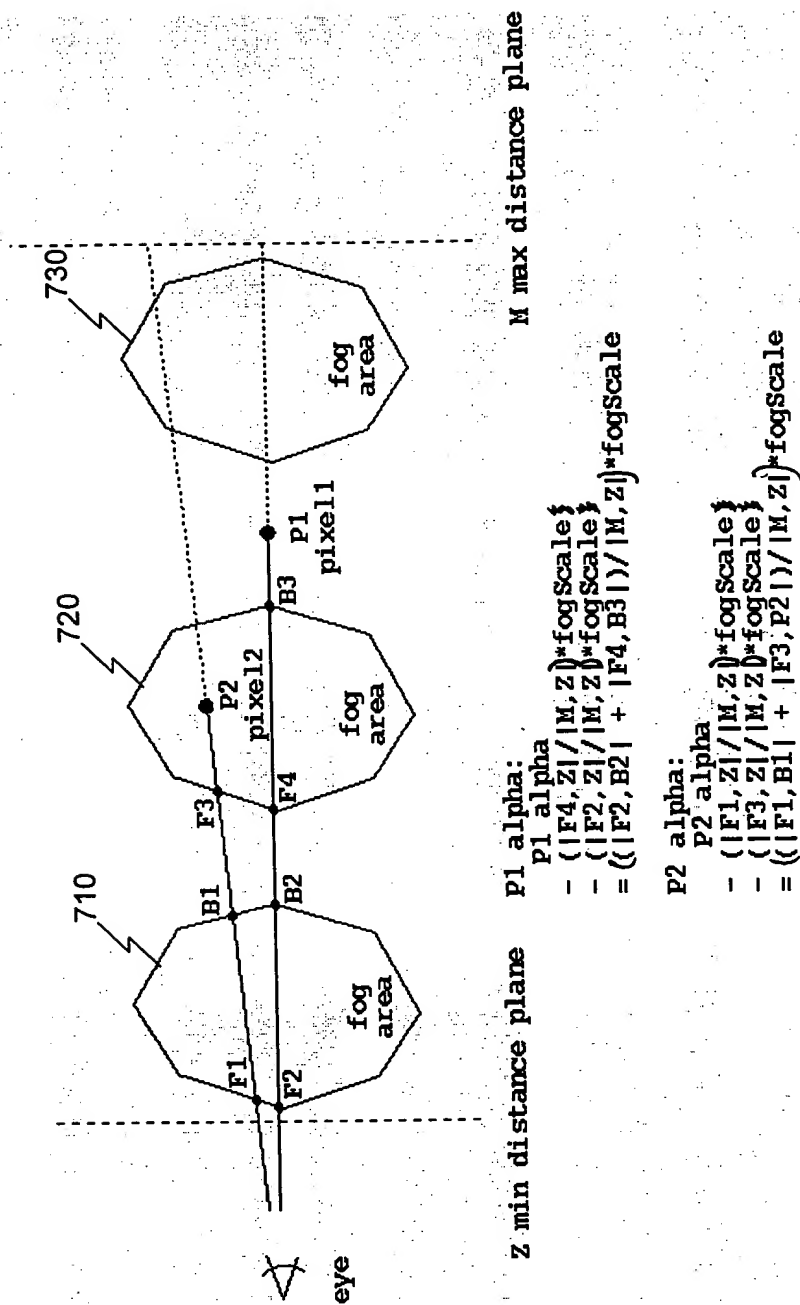


FIG. 7D

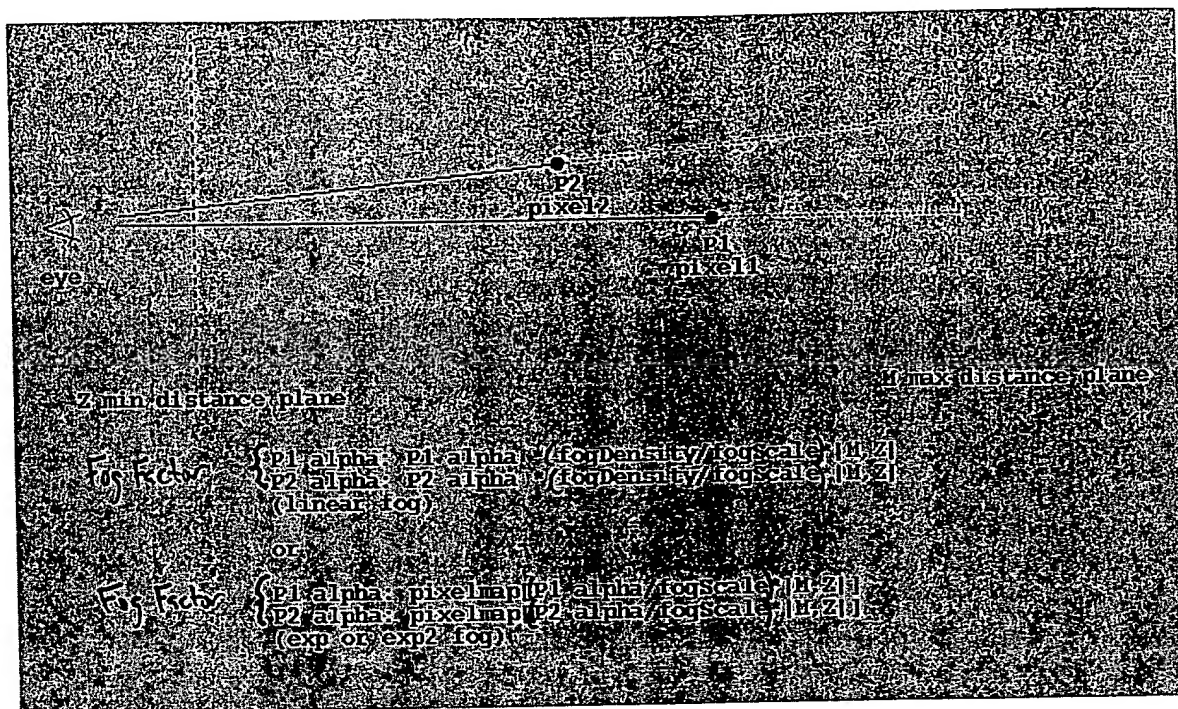


FIG. 7E

00991525.142101 FOR2F.925T6660

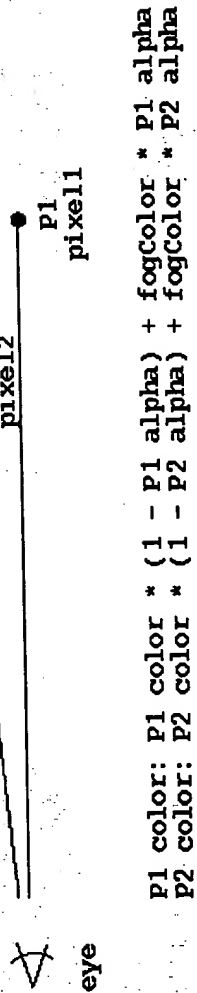


FIG. 7F